

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): A method for optimizing quality of service in a packet-switched domain of a mobile communication system, the method comprising:

sending, by a core network entity of said system, to a radio access network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request comprising first information derived from quality of service information contained in a corresponding request received by said core network entity ; and

adding, by said core network entity, to said request second information, that is known at a level of said core network entity.

2. (previously presented): A method according to claim 1, wherein said second information comprise information representative of radio access capabilities of said mobile station.

3. (currently amended): A method according to claim ~~2~~¹, wherein said radio access capabilities comprise capabilities to support higher data rates.

4. (previously presented): A method according to claim 3, wherein said capabilities to support higher data rates comprise a multislot capability.

5. (previously presented): A method according to claim 3, wherein said capabilities to support higher data rates comprise a capability to support different data transfer modes.

6. (previously presented): A method according to claim 5, wherein said different data transfer modes comprise a General Packet Radio Service (GPRS) mode and an Enhanced General Packet Radio Service (EGPRS) mode.

7. (previously presented): A method according to claim 1, wherein said setting-up or reconfiguration of a radio bearer comprises the creation or modification of a Packet Flow Context.

8. (previously presented): A method according to claim 7, wherein said request for the setting-up or the reconfiguration of a corresponding radio bearer is sent in a CREATE BSS PFC message.

9. (previously presented): A network element for a core network entity (SGSN) of a mobile communication system, comprising:

means for sending to a radio access network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request comprising first information derived from quality of service information contained in a corresponding request received by said core network entity; and

means for adding to said request second information, that is known at a level of said core network entity.

10. (cancelled).

11. (previously presented): A network element of a Radio Access Network entity (BSS) of a mobile communication system comprising:

a receiving module receiving from a core network entity of said system a request for the setting-up or reconfiguration of a radio bearer for a packet session for a mobile station, said request comprising first information derived from quality of service information contained in a corresponding request received by said core network entity and second information, known at a level of said core network entity.

12-15. (cancelled).

16. (previously presented): The method according to claim 1, further comprising performing a call admission control at the radio level based on said first information together with said second information.

17. (previously presented): The network according to claim 9, further comprising means for performing a call admission control at the radio level based on said first information together with said second information.

18. (previously presented): The network element according to claim 11, wherein said second information comprises information representative of radio access capabilities of said mobile station.

19. (previously presented): The network element according to claim 9, wherein said second information comprise information representative of radio access capabilities of said mobile station.

20. (previously presented): The network element according to claim 19, wherein said radio access capabilities comprise capabilities to support higher data rates.

21. (previously presented): The network element according to claim 20, wherein said capabilities to support higher data rates comprise a multislot capability.

22. (previously presented): The network element according to claim 20, wherein said capabilities to support higher data rates comprise a capability to support different data transfer modes.

23. (previously presented): The network element according to claim 22, wherein said different data transfer modes comprise a General Packet Radio Service (GPRS) mode and an Enhanced General Packet Radio Service (EGPRS) mode.

24. (previously presented): The network element according to claim 9, wherein said setting-up or reconfiguration of a radio bearer comprises the creation or modification of a Packet Flow Context.

25. (previously presented): The network element according to claim 24, wherein said request for the setting-up or the reconfiguration of a corresponding radio bearer is sent in a CREATE BSS PFC message.

26. (previously presented): The network element according to claim 18, wherein said radio access capabilities comprise capabilities to support higher data rates.

27. (previously presented): The network element according to claim 26, wherein said capabilities to support higher data rates comprise a multislot capability.

28. (previously presented): The network element according to claim 26, wherein said capabilities to support higher data rates comprise a capability to support different data transfer modes.

29. (previously presented): The network element according to claim 28, wherein said different data transfer modes comprise a General Packet Radio Service (GPRS) mode and an Enhanced General Packet Radio Service (EGPRS) mode.

30. (previously presented): The network element according to claim 11, wherein said setting-up or reconfiguration of a radio bearer comprises the creation or modification of a Packet Flow Context.

31. (previously presented): The network element according to claim 30, wherein said request for the setting-up or the reconfiguration of a corresponding radio bearer is sent in a CREATE BSS PFC message.

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32. (previously presented): The network element according to claim 11 further comprising means for performing a call admission control at the radio level based on said first information together with said second information.

33. (new): The method according to claim 1, wherein the first information is derived from the request sent by the mobile station and wherein the first information is separate and independent from the second information added to the request.

34. (new): The method according to claim 1, wherein the request is a request for setting-up the radio bearer for a new packet session for the mobile station.